

Workshop 1			
Panel Title	Agency/Organizat	Speaker (s)	Title/Topic
	Staff Presentation	Rich Satkowski	Review Process
Invited Expert Panel	Invited Expert Panel	Peter Goodwin	Introduction to Panel
		Bill Fleenor	Overview of Hydrologic changes of the system (modifications of flows)
		Wim Kimmerer	Ecosystem and low salinity zone Changes
		Jim Cloern	Managing estuary for uncertain future
		Anke Mueller-Solger	Changing Sciencefor a Changing Estuary
		Larry Brown	Summary of 1st panel
		Cliff Dahm	Questions to 1st panel part 1
			Questions to 1st panel part 2
Regulatory/Fish Agencies Panel	United States Environmental Protection Agency, Region IX; United States Department of the Interior Fish & Wildlife Service; California Department of Fish and Game	Erin Foresman	Water Quality/support X2
		Matt Nobriga	New Science Regarding Delta Smelt (Adult/Larval/Rearing Habitat)
		Patrick Coulston	SF Bay Delta Ecosystem changes and the Low Salinity Zone
		John Shelton	What's Next and Adaptive management Panel 2 Questions
Resource Mangement Agencies Panel	Department of Water Resources	Russ Stein Ted Sommer Andrew Schwarz John Leahigh	Introduction to Panel Low Salinity Zone/FLaSH Climate change Managing Uncertainty Panel 3 Questions
Environmental/ NGO groups Panel	Bay Institute; Natural Resources Defense Council; American Rivers; Pacific Coast Federation of Fishermen's Associations; California Water Impact Network; G. Fred Lee & Associates; California Sportfishing	Jonathan Rosenfield	Testimony Regarding Flow Criteria for the Bay-Delta Phase II – Low Salinity Zone
		Tom Cannon	Flow Standards and LSZ
		G. Fred Lee	Enhanced Delta Flows Needed to Help Control Water Quality Impacts of Delta Pollutants

		Tim Stroshane	Recent Salinity and Selenium Science and Modeling for the Bay Delta Estuary
In-Delta Water Interests	Flow Science Incorporated on behalf of City of Antioch	Susan Paulsen	The City of Antioch, BDCP impacts on Antioch and the "historical" delta
	East Bay Dischargers Authority/Bay Area Clean Water Agencies	Michael Connor	Ecosystem Changes and the Low Salinity Zone: In-Delta Water Interests Comments on Science/Policy Intersection
	Sacramento Regional County Sanitation District	Mike Bryan  Cameron Irvine	Need for a Comprehensive Delta Monitoring Framework as Part of the WQCP Implementation Program  Questions to Mike Bryan  Additional Scientific and Technical Information for the SWRCB Comprehensive (Phase 2) Review and Update to the Bay-Delta Plan  Questions
Sacramento Valley Water suppliers	Sacramento Valley Water Users; Northern California Water Association	Walter Bourez	Uncertainty in positioning of LSZ; Use of Hydrologic Data; Lack of Relationship Between Sacramento Valley Water Use And Pelagic Fish Declines; Hydrologic Impacts of Delta Flow Requirements Based On Unimpaired Flows; Managing for multiple beneficial uses  Questions

State/Central Valley Project contractors	State Water Contractors; San Luis Delta- Mendota Water Authority	Dave Fullerton Paul Hutton Sheila Greene Chuck Hanson  Patricia Glibert Dave Fullerton	Overview of flows correlation to fish populations and introduction to panel  Historical Flows Natural Flow Functions Habitat and Invasives  Nutrients and the Food web  Final comment/Questions
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Workshop 2			
Panel Title	Agency/Organization	Speaker (s)	Title/Topic
	Staff Presentation	Richard Satkowski	Workshop Process
Invited Expert Panel	Invited Expert Panel	Randy Baxter   Brad Cavallo  Eric Danner  Kenneth Rose  Kenneth Rose  John Largier  John Largier  Ted Sommer  Panel (Peter Goodwin, Sam Harader, John Largier plus the above)  Panel Questions	Theme 3: Key emerging science  Individual thoughts-SmeltCam and trawl sampling  Individual thoughts-Juvenile salmonoid and E/I  Individual thoughts- New tool: River Assessment for Forecasting Temperature  Questions/Process/Theme 1: Implications of science for management  Individual thoughts  Theme 2: Need for improved science to reduce uncertainty Individual thoughts Individual thoughts- fish habitat  Panel introduction Panel Questions
Environmental/NGO Panel	The Natural Resources Defense Council / The Bay Institute; Trout Unlimited; American Rivers ;CA Sportfishing	Jonathan Rosenfield	Winter-Spring outflow, Delta Hydrodynamics and making decision in the face of uncertainty

		Rene Henery	Additional scientific information related to salmonids
Environmental/NGO Panel	The Bay Institute; Trout Unlimited; American Rivers ;CA	John Cain	Importance of/New Science on Floodplains
		Tom Cannon	Flows, exports, temperatures and Delta Smelt
Resource Management agencies panels	Department of Water Resources	Brett Harvey	export diversions vs life history, juvenile diversity
		Gardner Jones	BDCP conservation measures and decision tree
		Dennis McEwan	Near Term Habitat Restoration Actions Questions to the panel
In-Delta Water Interests Panel	Contra Costa Water District	Deanna Sereno	Use of an Index for Old and Middle River Flow Objectives
	Sacramento Regional County Sanitation District	Diana Engle	Addressing uncertainty regarding the pelagic food web: perspectives and suggestions Questions to Diana Engle
Sacramento Valley Water Suppliers Panel	N CA Water Assoc.; Sacramento Valley Water Users	Robert Latour	Data Analyses in Relation to Water Flow for Species in the Sacramento - San Joaquin Delta
		Dave Vogel	Insights into the Problems, Progress, and Potential Solutions for Sacramento River Basin Native Anadromous Fish Restoration for Consideration in the Bay-Delta Water Quality Control Plan Update
San Joaquin Valley Water Supplier Panel	San Joaquin Tributaries Association	Tim O'Laughlin	
		Doug Demko	
State and Central		Dave Fullerton	Review of previous workshop presentation
		Chuck Hanson	Relationships between flow and salmon survival
	State Water Contractors;		

State and Central Valley Project Contractors	State Water Contractors; San Luis & Delta-Mendota Water Authority	Steve Cramer	Integration of scientific information and decisionmaking
		Dave Fullerton	Pelagic Fish-Delta smelt
		Richard Deriso	Lifecycle Modeling; Entrainment
		Noble Hendrix	Fall X2 and Delta smelt abundance
		Dave Fullerton	Outflow and Longfin smelt abundance
Regulatory/ Fishery agencies	United States Environmental Protection Agency, Region IX; US DOI Fish & Wildlife Service;US NOAA Fisheries Service; California Department of Fish and Game	Richard Dugdale	Ammonium inhibition and the foodweb
			Questions to the panel
		Erin Foresman	Introduction
		Bruce Herbold	EPA Recommendations, Historical Delta- X2 history
		Erin Foresman	Recommendation on how to use information to make decisions
		Kevin Shaffer	Anadromous species- Winter Run Salmon
		Patrick Coulston	Smelt entrainment
		Pat Brandes	Salmon- stock status, juvenile abundance, spring and winter genetics, survival and DCC gate closure
		Garwin Yip	Low winter-run chinook, NMFS BiOps, modeling range of flows, dams and cold water pool,
		Panel Questions	

Workshop 3			
Panel Title	Agency/Organizat	Speaker (s)	Title/Topic
	Staff Introduction	Richard Satkowski	Workshop Process
Invited Expert Panel	Invited Expert Panel	Peter Goodwin Jon Burau	
		John DeGeorge	How the Delta Works - Movement and Connections (basic Physics)

			How the Delta Works - Some management issues
		John Durand Greg Gartrell Marianne Guerin	
Invited Expert Panel	Invited Expert Panel	Jay Lund Peter Smith William Smith Mark Stacy Chris Enright (8.85 MB)	Summary of report/questions
Alternative Modeling Approaches Panel	ICF International; Stockholm Environment Institute	Russ Brown  David Purkey	Daily Hydrology and fish tracking methods in the Central Valley and bay-Delta  Central Valley WEAP Model
Environmental/ NGO Panel	Natural Resources Defense Council / The Bay Institute; American Rivers; CA Water Impact Network; CA Sportfishing Protection Alliance; The Nature Conservancy	Peter Vorster  John Cain (1) John Cain (2)  Tim Stroshane  Chris Shutes Leo Winternitz Clint Alexander	Analytical Tools and Approaches for Adaptive Management, Flood Plain Restoration Planning, and Reservoir Re-Operation  Water Availability Analysis for River Basins Tributary to the Bay-Delta Estuary  Water Balance Modeling for the Comprehensive Review And Update to the Bay - Delta Plan  Ecological Flows Tool
Resource Management Agencies Panel	Department of Water Resources; US DOI Bureau of Reclamation	Erik Reyes Ron Milligan Paul Fujitami Mary Johannis Tom Fitzhugh	CalSim-II, CalLite, DSM2, SELFE  Operational Considerations quality modeling/SJR flow model
In-Delta water interests panel	City of Antioch	Susan Paulsen	
Hydropower Producers Panel	CA Municipal Utilities Association; State Water Contractors; Northern CA Power Agency	Dave Modisette	Background on Hydropower

		Timothy Haines	Align Water and Energy Policy
Hydropower Producers Panel	Utilities Association; State Water Contractors; Northern CA	Jerry Toenyes	Delta Flow Objectives May Impact Central Valley Project and Central Valley Project Improvement Act
California Energy Agencies	CA Energy Commission; CA Public Utilities Commission; CA Independent System Operator	Mike Jaske Nathaniel Skinner Dennis Peters	Background and overview of Hydropower models Rate payer concerns and modeling forecasts and assumptions Background and overview of Hydropower models
Sacramento Valley Water Suppliers Panel	Sacramento Valley Water Users	Mark Petrie Walter Bourez	Waterfowl and the WQ control plan Changed in operations since 2006 WQ control plan and discuss analytical tools
San Joaquin Valley Water Suppliers Panel	San Joaquin Tributaries Association	Tim O'Laughlin Doug Demko	Comments pertaining to use of SJB salmon population models to modify flow standards for the purpose of doubling natural production of Chinook salmon
State and Central Valley Project Contractors Panel	State Water Contractors; San Luis & Delta-Mendota Water Authority	Wayne Lifton Paul Hutton David Sunding Ray Hilborn	Adaptive management A Model to Estimate Natural Delta Outflow Modeling the Economic Impact of Changes in Delta Water Supplies Life Cycles models, decision making, and resolving scientific uncertainty
Regulator/ Fishery Agencies Panel	CA Department of Fish and Game; US NOAA Fisheries Service; US DOI Fish and Wildlife Service; US EPA	Dean Marston Patrick Coulston Candam Sokyan Julie Zimmerman	Update on SALSIM Recommendations on Use of Biological models A Flexible, Multi - Input Life Cycle Model for Chinook Salmon in the Central Valley of California Using Structured Decision Making to manage uncertainty and improve management outcomes

## Workshop 1

Date	Video	Start time	End Time
9/5/2012	<a href="#">Video 1</a>	4:55	12:27
9/5/2012	<a href="#">Video 1</a>	14:23	21:10
9/5/2012	<a href="#">Video 1</a>	21:20	31:16
9/5/2012	<a href="#">Video 1</a> <a href="#">Video 2</a>	31:53	3:35
9/5/2012	<a href="#">Video 2</a>	3:40	20:15
9/5/2012	<a href="#">Video 2</a>		
9/5/2012		20:34	35:24
9/5/2012	<a href="#">Video 2</a>	35:33	44:54
9/5/2012	<a href="#">Video 2</a> <a href="#">Video 3</a>	45:05	2:10
9/5/2012	<a href="#">Video 4</a>	0:00	29:55
9/5/2012	<a href="#">Video 5</a>	18:21	34:17
9/5/2012	<a href="#">Video 5</a>	0:00	18:20
9/5/2012	<a href="#">Video 4</a>	33:13	50:44
9/5/2012	<a href="#">Video 4</a>	50:45	1:05:27
9/5/2012	<a href="#">Video 5</a>	34:20	38:53
9/5/2012	<a href="#">Video 5</a>	40:18	46:17
9/5/2012	<a href="#">Video 5</a>	46:34	1:14:14
9/5/2012	<a href="#">Video 6</a>	0:00	15:45
9/5/2012	<a href="#">Video 6</a>	15:55	39:30
9/5/2012	<a href="#">Video 6</a>	39:30	59:30
9/5/2012	<a href="#">Video 7</a>	1:25	29:00
	<a href="#">Video 7</a>	50:52	1:06:22
9/5/2012	<a href="#">Video 6</a>	1:01:57	1:14:09



9/5/2012	<u>Video 7</u>	31:44	50:00
9/6/2012	<u>Video 2</u>	3:50	19:07
9/6/2012	<u>Video 1</u>	4:19	23:38
9/6/2012	<u>Video 1</u>	23:50 41:06	40:09 42:53
9/6/2012	<u>Video 1</u> <u>Video 2</u>	43:00	3:43
9/6/2012	<u>Video 2</u>	23:30	44:50
9/6/2012	<u>Video 5</u>	0:00	49:36
9/6/2012	<u>Video 5</u> <u>Video 6</u>	49:36	8:55

9/6/2012	<u>Video 3</u>		5:03	25:23
9/6/2012	<u>Video 3</u>		25:25	41:08
9/6/2012	<u>Video 3</u>		41:08	50:58
9/6/2012	<u>Video 3</u>	<u>Video 4</u>	51:10	11:31
9/6/2012	<u>Video 4</u>		11:32	41:50
9/6/2012	<u>Video 4</u>		41:51	58:29

### Workshop 2

Date	Video	Start time	End Time
10/1/2012	<u>Video 1</u>	11:39	20:24
10/1/2012	<u>Video 1</u> <u>Video 2</u>	54:33	16:48
10/1/2012	<u>Video 2</u>	16:48	23:04
10/1/2012	<u>Video 2</u>	23:04	33:58
10/1/2012	<u>Video 2</u>	34:00	38:50
10/1/2012	<u>Video 1</u>	26:32	41:47
10/1/2012	<u>Video 2</u> <u>Video 3</u>	57:34	2:15
10/1/2012	<u>Video 1</u>	41:47	54:32
10/1/2012	<u>Video 2</u>	38:55	42:43
10/1/2012	<u>Video 2</u>	48:39	56:16
10/1/2012	<u>Video 1</u>	22:45	26:15
10/1/2012	<u>Video 3</u>	2:16	9:00
10/1/2012	<u>Video 7</u>	12:24	44:46

10/1/2012	<u>Video 7</u>		44:51	59:23
10/1/2012	<u>Video 7</u>	<u>Video 8</u>	59:29	27:30
10/1/2012	<u>Video 8</u>		27:31	55:39
10/1/2012	<u>Video 6</u>		3:41	27:47
10/1/2012	<u>Video 6</u>		27:48	45:58
10/1/2012	<u>Video 6</u>	<u>Video 7</u>	46:20	1:40
10/1/2012	<u>Video 7</u>		1:41	8:21
10/2/2012	<u>Video 1</u>	<u>Video 2</u>	1:00:47	23:32
10/2/2012	<u>Video 1</u>		3:51	50:49
10/2/2012	<u>Video 1</u>		50:50	55:53
10/1/2012	<u>Video 8</u>	<u>Video 9</u>	59:56	31:48
11/14/2012	<u>Video 2</u>	<u>Video 3</u>	39:02	10:46
10/2/2012	<u>Video 5</u>	<u>Video 6</u>	0:00	30:41
10/2/2012	<u>Video 2</u>		31:42	39:44
10/2/2012	<u>Video 2</u>	<u>Video 3</u>	39:45	3:54

10/2/2012	<u>Video 3</u>	3:55	19:14
10/2/2012	<u>Video 3</u>	19:15	24:32
10/2/2012	<u>Video 3</u>	24:33	36:42
10/2/2012	<u>Video 3</u>	36:45	51:55
10/2/2012	<u>Video 3</u>	51:55	1:03:05
10/2/2012	<u>Video 3</u> <u>Video 4</u>	1:03:13	16:26
10/2/2012	<u>Video 4</u>	16:27	19:47
10/1/2012	<u>Video 3</u>	17:47	19:31
10/1/2012	<u>Video 4</u>	31:59	45:59
10/1/2012	<u>Video 4</u>	45:59	52:12
10/1/2012	<u>Video 3</u>	19:32	35:07
10/1/2012	<u>Video 3</u>	35:14	47:39
10/1/2012	<u>Video 3</u> <u>Video 4</u>	47:50	15:18
10/1/2012	<u>Video 4</u>	15:28	31:51
10/1/2012	<u>Video 4</u> <u>Video 5</u>	52:12	end of video 5

### Workshop 3

Date	Video	Start time	End Time
11/13/2012	<u>Video 1</u>	4:03	7:08
		7:09	
11/13/2012	<u>Video 1</u>	13:07	45:37

11/13/2012	<u>Video 2</u>	<u>Video 3</u>	41:26	0:11
11/13/2012	<u>Video 1</u>	<u>Video 2</u>	45:38	41:25
11/13/2012	<u>Video 3</u>		17:01	28:51
11/13/2012	<u>Video 3</u>		28:55	41:10
11/13/2012	<u>Video 9</u>		6:40	29:55
11/13/2012	<u>Video 7</u>	<u>Video 8</u>	46:28	18:23
11/13/2012	<u>Video 8</u>	<u>Video 9</u>	48:01	6:30
11/13/2012	<u>Video 8</u>		38:08	48:00
11/13/2012	<u>Video 8</u>		18:15	38:06
11/13/2012	<u>Video 6</u>		4:00	36:43
11/13/2012	<u>Video 7</u>		9:37	35:49
11/13/2012	<u>Video 6</u>		36:45	47:49
11/13/2012	<u>Video 6</u>	<u>Video 7</u>	47:50	9:36
11/13/2012	<u>Video 2</u>		4:30	21:14
11/14/2012	<u>Video 5</u>		0:00	7:02

11/14/2012	<u>Video 5</u>	7:06	39:50
11/14/2012	<u>Video 5</u>	40:00	56:50
11/14/2012	<u>Video 6</u>	16:35	44:47
11/14/2012	<u>Video 6</u>	44:48	52:49
11/14/2012	<u>Video 5</u> <u>Video 6</u>	1:03:32	16:34
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11/13/2012	<u>Video 9</u> <u>Video 10</u>	45:30	9:28
11/13/2012	<u>Video 10</u> <u>Video 11</u>	10:08	end
11/14/2012	<u>Video 1</u>	0:00	18:46
11/13/2012	<u>Video 3</u> <u>Video 4</u>	43:22	12:01
11/13/2012	<u>Video 4</u>	12:18	26:56
11/13/2012	<u>Video 4</u>	27:04	38:42
11/13/2012	<u>Video 4</u>	38:43	51:10

presentation link

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hop 2

	presentation link
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hop 3

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